

75618-1

Label  
CA-1 for Turf and Ornamentals  
October 22, 2009  
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# CA-1 for Turf and Ornamentals

**Active Ingredient:**

Oriental Mustard Seed (Brassica juncea) ..... \*98%  
Other Ingredients: ..... 2%  
Total: ..... 100%

\*Produces 1% by weight Allyl isothiocyanate (AITC).

**KEEP OUT OF REACH OF CHILDREN  
CAUTION**

FIRST AID	
If in eyes	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15 – 20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
Have the product container or label with you when calling a poison control center or doctor, or going for treatment.	

**See back panel for additional precautionary statements**

Net Contents: 50 lbs

Manufactured by:  
Nematrol Inc.  
6 Village Crossing East  
Guelph, ON N1G 4X7 Canada

EPA Registration No. 75618-1  
EPA Establishment No. 67650-CAN-1

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**ACCEPTED**

DEC 09 2009

Under the Federal Insecticide,  
and Rodenticide Act, as amended  
the pesticide registered under  
EPA Reg. No. 75618-1

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### PRECAUTIONARY STATEMENTS

**Hazard to Humans and Domestic Animals: Caution.** Causes moderate eye irritation. Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum or using tobacco. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

**Personal Protective Equipment (PPE):** Applicators and other handlers must wear long-sleeved shirt and long pants, and shoes plus socks. It is strongly recommended to wear goggles and not to expose bare skin when handling the product. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

#### User Safety Recommendations

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

**Environmental Hazards:** This pesticide is very highly toxic to fish. To protect the environment, do not allow pesticide to enter or run off into storm drains, gutters or surface waters. Applying this product in calm weather when rain is not predicted for the next 24 hours will help to ensure that wind or rain does not blow or wash pesticide off the treatment area. Sweeping any product that lands on a driveway, sidewalk, or street, back onto the treated area of the lawn or garden will help to prevent run off to water bodies or drainage systems. This product is highly toxic to bees exposed to direct treatment on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds while bees are actively visiting the treatment area. This product may be phytotoxic to plants if it is applied at more than the prescribed application rate. Do not apply at more than the prescribed application rate.

### DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labelling.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation. Read and follow all applicable directions and precautions on this label before using.

#### Agricultural Use Requirements

Use this product only in accordance with its labelling and with the Worker Protection Standard, 40 CFR Part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and

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exceptions pertaining to the statements on this label about personal protective equipment (PPE), and restricted entry intervals (REI). The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is: coveralls, shoes plus socks, and waterproof gloves.

#### **Non-Agricultural Use Requirements**

The requirements of this box apply to uses of this product that are not within the scope of the Worker protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries or greenhouses.

Keep unprotected persons and pets out of treated areas until turf and soil have dried.

#### **General Information:**

The product (CA-1 for Turf and Ornamentals) is a dry granule applied directly to the turf or soil for the suppression of nematodes such as root-knot, ring, sting, stubby root and lance nematodes, insects such as grubs, crickets and chinch bugs and soil fungi such as *Rhizoctonia solani* and *Asperquillus niger*. CA-1 for Turf and Ornamentals is intended for use as a part of an Integrated Pest Management (IPM) system. When used in conjunction with good cultural management practices and as part of a complete control program, CA-1 for Turf and Ornamentals suppresses nematode and insect infestations in turf and ornamentals. Turf and ornamentals will be healthier and plant vigour will be increased.

#### **Application Directions:**

Do not apply this product through any type of irrigation system. Never mix the product with water prior to application. This product must be applied dry by using a well calibrated spreader, and distribute the product uniformly as indicated for the turf or ornamentals. Immediately after application, watering must be followed as indicated. The product (CA-1 for Turf and Ornamentals) is stable when it is dry, but will liberate AITC when wet with water. The best time to apply the product is when the soil is dry. The amount of water needed is dependent on soil moisture content and soil type. The amount of water indicated below is when the soil is dry. When the soil is wet, less water is required.

**For established golf greens and tees and other turf surfaces** – Apply 10 lbs per 1000 square feet as the standard rate to the green, tee or other turf surface by using a well calibrated spreader; but up to 20 lbs per 1000 square feet can be used if the soil's condition is really bad or the nematode or insect population is extremely high. If the grass is bent grass, never use more than 10 lbs because it will cause phytotoxicity (yellowing of the grass). In all cases, water with a well-calibrated sprinkling system immediately after spreading. Apply 1/2 inch equivalent of water or 30 minutes of

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sprinkling without break if possible. Avoid super-saturation of the application area by pausing for brief periods (5 minutes) when required. As the efficacies of sprinkling systems vary widely, ensure that the top 3-4 inches of soil become wet to best assure an adequate amount of water has been applied. This method will not be useful, however, if the soil is already wet before the product is spread. Then apply 1/3 inch of water or 20 minutes of sprinkling.

**Notice:** An excess amount of application (more than the above recommended rate) may cause phytotoxicity (yellowing of the turf, reduced germination and/or damage to the root of transplanted young seedlings). Be careful if the grass is bent grass; never use more than 10 lbs per 1000 square feet.

**For use on ornamentals, before transplanting or sowing** - Apply 10 lbs CA-1 for Turf and Ornamentals per 1000 square feet directly to soil surfaces 3 to 5 days prior to transplanting or sowing. If the soil's condition is really bad or the nematode or insect population is extremely high, up to 20 lbs per 1000 square feet can be used without causing any problem. In all cases, do not transplant or sow the seed immediately after treatment; wait at least 3 days and preferably 5 days after treatment. This is to avoid the potential inhibition of germination of the seed. Apply product with a spreader or any other applicator that will ensure uniform coverage. For optimum results, mix/incorporate the product with the upper soil layer to a depth of 3 to 4 inches by means of disc, rotary hoe or other similar equipment. Immediately after application, sprinkle water uniformly until the required depth of soil (3 to 4 inches) is well moistened.

**For use on established ornamentals** – Spread 10 lbs CA-1 of Turf and Ornamentals per 1000 square feet of soil, but up to 20 lbs per 1000 square feet can be used if the soil's condition is really bad or the nematode or insect population is extremely high, without covering and/or touching the plant, and mix into the soil as shown above for the transplanting application. Immediately after application, apply water as shown above.

**Best time and frequency of application:** In order to maximize nematode control, early spring when soil temperature is still not too hot is highly recommended, but this is dependent on geographical regions. Generally speaking, the end of April to early June is suitable. Also, one more application in the fall is highly recommended.

**Notice:** The second application must not be made within 30 days after the first application. Do not apply at a higher rate than the recommended rate. As a standard system, two applications during a year are allowed as recommended, but if field conditions are really bad, three applications are allowed and will not be harmful in most cases, but caution must be taken in all cases. Under any circumstances, a 30-day interval must be kept between applications.

#### **STORAGE AND DISPOSAL**

Do not contaminate water, food or feed by storage or disposal.

**Pesticide Storage:** Store in tightly-sealed container in a cool, dry place out of direct sunlight and away from heat sources. Optimum storage temperature is lower than 40°C. Keep from overheating or freezing.

**Pesticide Disposal:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

**Container Disposal:** Non-refillable container. Do not reuse or refill this container. Offer for recycling, if available. If recycling is not available, completely empty bag into

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application equipment. Then dispose of empty bag in a sanitary landfill or by incineration, or, if allowed by state and local authorities, by burning. If burned keep out of smoke.

**BATCH CODE**

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